

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---------------------------|------------------|---------|---------------------|
| S1 | 1 | ("5620578").PN. | US-PGPUB; USPAT | OR | OFF | 2007/08/06 18:03 |
| S2 | 2 | (("6500742") or ("5620578")).PN. | US-PGPUB; USPAT | OR | OFF | 2007/08/06 18:25 |
| S3 | 4 | ep-511733-\$ did. or ep- 824266-\$ did. | EPO; JPO; DERWENT | ADJ | ON | 2007/08/06 18:25 |
| S4 | 8 | ("5620578").URPN. | USPAT | ADJ | ON | 2007/08/07 09:59 |
| S5 | 10 | ("3314395" "3516386" "4909695" "5065698" "5076205" "5244554" "5364219" "5429729"). PN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/07 10:17 |
| S6 | 280 | ((transfer or exchange) near5 (system or process or method)) and ((sputter or focus) adj (ring or circle or hoop)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/07 11:02 |
| S7 | 74 | ((transfer or exchange) near5 (system or process or method)) and ((sputter or focus) adj (ring or circle or hoop)) and ("204".clas. or "118".clas. or "427". clas. or "414".clas.) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/07 10:36 |
| S8 | 201 | ((transfer or exchange) near5 (system or process or method)) and ((sputter or focus) adj (ring or circle or hoop)) and (replace or remove) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/07 10:54 |
| S9 | 0 | ((transfer or exchange) near5 (system or process or method)) and ((sputter or focus) adj (ring or circle or hoop)) and (replac or remov) control and (robot or automated or automatically) | US-PGPUB; USPAT | ADJ | ON | 2007/08/07 10:55 |
| S10 | 0 | ((transfer or exchange) near5 (system or process or method)) and ((sputter or focus) adj (ring or circle or hoop)) and (replac or remov) and control and (robot or automated or automatically) | US-PGPUB; USPAT | ADJ | ON | 2007/08/07 10:55 |

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|-----|-------|--|-------------------|-----|----|------------------|
| S11 | 0 | ((transfer or exchange) near5 (system or process or method)) and ((sputter or focus) adj (ring or circle or hoop)) and (replac or remov) and control | US-PGPUB; USPAT | ADJ | ON | 2007/08/07 10:55 |
| S12 | 195 | ((transfer or exchange) near5 (system or process or method)) and ((sputter or focus) adj (ring or circle or hoop)) and (replace or remove) and control | US-PGPUB; USPAT | ADJ | ON | 2007/08/07 11:01 |
| S13 | 57 | ((transfer or exchange) near5 (system or process or method)) and ((sputter or focus) adj (ring or circle or hoop)) and (replace or remove) and control and (robot or automated or automatically) | US-PGPUB; USPAT | ADJ | ON | 2007/08/07 10:56 |
| S14 | 69 | ((transfer or exchange) near5 (system or process or method)) and ((sputter or focus) adj (ring or circle or hoop)) and (replac\$ or remov\$) and control and (robot or automated or automatically) | US-PGPUB; USPAT | ADJ | ON | 2007/08/07 10:56 |
| S15 | 0 | ((transfer or exchange) near5 (system or process or method)) and ((sputter or focus) adj (ring or circle or hoop)) and (replace or remove) and control | EPO; JPO; DERWENT | ADJ | ON | 2007/08/07 11:02 |
| S16 | 3 | ((transfer or exchange) near5 (system or process or method)) and ((sputter or focus) adj (ring or circle or hoop)) | EPO; JPO; DERWENT | ADJ | ON | 2007/08/07 11:06 |
| S17 | 2139 | ((transfer or exchange) near5 (system or process or method)) and ((module or part or component) with (replac\$ or remov\$)) | EPO; JPO; DERWENT | ADJ | ON | 2007/08/07 11:07 |
| S18 | 72107 | ((transfer or exchange) near5 (system or process or method)) and ((module or part or component) with (replac\$ or remov\$)) | US-PGPUB; USPAT | ADJ | ON | 2007/08/07 11:07 |

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|-----|------|--|-----------------|-----|-----|---------------------|
| S19 | 3238 | ((transfer or exchange) near5 (system or process or method)) and ((module or part or component) with (replac\$ or remov\$)) and ("204".clas. or "118".clas. or "427".clas. or "414".clas.) | US-PGPUB; USPAT | ADJ | ON | 2007/08/07 11:08 |
| S20 | 487 | ((transfer or exchange) near5 (system or process or method)) and ((module or part or component) with (replac\$ or remov\$)) and ("204".clas. or "118".clas. or "427".clas. or "414".clas.) and process and vacuum and maintenance | US-PGPUB; USPAT | ADJ | ON | 2007/08/07 11:21 |
| S21 | 463 | ((transfer or exchange) near5 (system or process or method)) and ((module or part or component) with (replac\$ or remov\$)) and ("204".clas. or "118".clas. or "427".clas. or "414".clas.) and process and vacuum and maintenance and control | US-PGPUB; USPAT | ADJ | ON | 2007/08/07 11:23 |
| S22 | 150 | ((transfer or exchange) near5 (system or process or method)) and ((module or part or component) with (replac\$ or remov\$)) and ("204".clas. or "118".clas. or "427".clas. or "414".clas.) and process and vacuum and maintenance and control and ((slot or gate) near5 valve) | US-PGPUB; USPAT | ADJ | ON | 2007/08/07 11:50 |
| S23 | 100 | ("4851995") or ("5237529") or ("5491338") or ("5592413") or ("5954803") or ("4471425") or ("4954945") or ("5007981") or ("5200017") or ("5467436") or ("5729623") or ("5974233") or ("6100999") or ("6232248") or ("4244288") or ("4353975") or | US-PGPUB; USPAT | OR | OFF | 2007/08/07 11:50 |

("4361392") or
("4398245") or
("4400778") or
("4445176") or
("4453215") or
("4483916") or
("4483124") or
("4491916") or
("4500750") or
("4597084") or
("4630105") or
("4757442") or
("4806210") or
("4813001") or
("4847110") or
("4878173") or
("4958057") or
("4967340") or
("4984002") or
("5026590") or
("5210751") or
("5235685") or
("5274508") or
("5278478") or
("5333037") or
("5334439") or
("5410542") or
("5414740") or
("5467454") or
("5563745") or
("5640598") or
("5646521") or
("5673077") or
("5721884") or
("5730574") or
("5748124") or
("5781908") or
("5835691") or
("5858604") or
("5894569") or
("5920498") or
("5923901") or
("5956503") or
("5971638") or
("5978609") or
("6026267") or
("6048154") or
("6092981") or
("6097846") or
("6139641") or
("6193459") or
("6201552") or
("6228773") or
("6240438") or
("4252598") or
("4262101") or
("4264930") or
("4264808") or

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|-----|-----|---|---------------------------|-----|-----|---------------------|
| | | ("4272181" or ("4277836" or ("4289840" or ("4295204" or ("4294906" or ("4296069" or ("4297429" or ("4299476" or ("4303459" or ("4307149" or ("4310327" or ("4314328" or ("4317313" or ("4318660" or ("4319827" or ("4320187" or ("4320505" or ("4321239" or ("4321486" or ("4322752" or ("4327127" or ("4337403" or ("4341858" or ("4355090" or ("4357407" or ("4358523")).PN. | | | | |
| S24 | 1 | ("3340146").PN. | US-PGPUB; USPAT | OR | OFF | 2007/08/07 13:58 |
| S25 | 0 | ("2002/0132380").URPN. | USPAT | ADJ | ON | 2007/08/07 15:04 |
| S26 | 1 | ("6095741").PN. | US-PGPUB; USPAT | OR | OFF | 2007/08/08 11:21 |
| S27 | 42 | ("0666123" "0777450" "0966986" "0980004" "1021710" "1396316" "1814927" "2376875" "2388917" "2656885" "2667342" "3260381" "3340146" "3418213" "3471373" "3489298" "3700132" "3772519" "3847616" "3913756" "4553069" "4577112" "4637342" "4699555" "4722654" "4824309"). PN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 14:36 |
| S28 | 249 | ((annular or cylindrical) ring) and "204".clas. and ((wafer or substrate) with (holder or support or pedestal)) | US-PGPUB; USPAT | ADJ | ON | 2007/08/09 15:27 |

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|-----|---------|--|-------------------------|-----|-----|------------------|
| S29 | 15 | ((annular or cylindrical) ring) and "204".clas. and ((wafer or substrate) with (holder or support or pedestal)) and (lift pins) | US-PGPUB; USPAT | ADJ | ON | 2007/08/09 15:28 |
| S30 | 42 | ("0666123" "0777450" "0966986" "0980004" "1021710" "1396316" "1814927" "2376875" "2388917" "2656885" "2667342" "3260381" "3340146" "3418213" "3471373" "3489298" "3700132" "3772519" "3847616" "3913756" "4553069" "4577112" "4637342" "4699555" "4722654" "4824309"). PN. OR ("5085410"). URPN. | US-PGPUB; USPAT; USOOCR | ADJ | ON | 2008/02/04 12:08 |
| S31 | 1 | 1992-367565.NRAN. | DERWENT | ADJ | ON | 2008/02/04 20:08 |
| S32 | 503 | wafer transfer arm | US-PGPUB; USPAT | ADJ | ON | 2008/02/04 21:13 |
| S33 | 89512 | maintenance and module | US-PGPUB; USPAT | ADJ | ON | 2008/02/04 21:13 |
| S34 | 4342796 | maintenanc\$ or repair\$ or fix\$ or replac\$ or remov\$ | US-PGPUB; USPAT | ADJ | ON | 2008/02/04 21:15 |
| S35 | 471 | S32 and S34 | US-PGPUB; USPAT | ADJ | ON | 2008/02/04 21:15 |
| S36 | 607 | (wafer near transfer near arm) and S34 | US-PGPUB; USPAT | ADJ | ON | 2008/02/04 21:16 |
| S37 | 463 | (wafer near transfer near arm) and S34 and (module or chamber) | US-PGPUB; USPAT | ADJ | ON | 2008/02/04 21:16 |
| S38 | 353 | S32 and S34 and (module or chamber) | US-PGPUB; USPAT | ADJ | ON | 2008/02/04 21:17 |
| S39 | 347 | S32 and S34 and (module or chamber) and semiconductor | US-PGPUB; USPAT | ADJ | ON | 2008/02/04 21:18 |
| S40 | 1 | ("5223112").PN. | US-PGPUB; USPAT | OR | OFF | 2008/02/19 09:39 |
| S41 | 1 | ("5223112").PN. | US-PGPUB; USPAT | OR | OFF | 2008/08/13 10:35 |
| S42 | 213 | "118".clas. and 204/298.11.ccls. | US-PGPUB; USPAT | ADJ | ON | 2008/08/13 11:57 |
| S43 | 54072 | "118".clas. or 204/298.11. ccls. | US-PGPUB; USPAT | ADJ | ON | 2008/08/13 11:57 |

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|-----|-------|---|-----------------|-----|----|------------------|
| S44 | 7125 | (controller same (recipe or program)) and semiconductor and (deposition or etch or etching) | US-PGPUB; USPAT | ADJ | ON | 2008/08/14 14:43 |
| S45 | 636 | (controller same (recipe or program) same (maintenance or clean or cleaning)) and semiconductor and (deposition or etch or etching) | US-PGPUB; USPAT | ADJ | ON | 2008/08/14 14:44 |
| S46 | 37 | (controller same (recipe or program) same (maintenance or clean or cleaning)) and semiconductor and (deposition or etch or etching) and ((transfer or transport) near1 arm) | US-PGPUB; USPAT | ADJ | ON | 2008/08/14 14:44 |
| S47 | 42149 | ((exchange or exchanging or remove or removing or replace or replacing) same (clean or cleaning) and (semiconductor or wafer) | US-PGPUB; USPAT | ADJ | ON | 2008/08/14 15:13 |
| S48 | 7466 | ((exchange or exchanging or remove or removing or replace or replacing) same (clean or cleaning) same (part or shutter or plate or shield) and (semiconductor or wafer) | US-PGPUB; USPAT | ADJ | ON | 2008/08/14 15:13 |
| S49 | 859 | ((exchange or exchanging or remove or removing or replace or replacing) same ((clean or cleaning) with chamber) same (part or shutter or plate or shield)) and (semiconductor or wafer) and (deposition or etch or etching) | US-PGPUB; USPAT | ADJ | ON | 2008/08/14 15:14 |
| S50 | 278 | ((exchange or exchanging or remove or removing or replace or replacing) with ((clean or cleaning) with chamber) with (part or shutter or plate or shield)) and (semiconductor or wafer) and (deposition or etch or etching) | US-PGPUB; USPAT | ADJ | ON | 2008/08/14 15:15 |

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|-----|-------|---|-----------------|-----|-----|------------------|
| S51 | 18 | ((exchange or exchanging or remove or removing or replace or replacing) with ((clean or cleaning) with chamber) with (part or shutter or plate or shield) with system) and (semiconductor or wafer) and (deposition or etch or etching) | US-PGPUB; USPAT | ADJ | ON | 2008/08/14 15:15 |
| S52 | 1 | ("5861086").PN. | US-PGPUB; USPAT | OR | OFF | 2008/08/14 15:17 |
| S53 | 278 | ((exchange or exchanging or remove or removing or replace or replacing) with ((clean or cleaning) with chamber) with (part or shutter or plate or shield) with chamber) and (semiconductor or wafer) and (deposition or etch or etching) | US-PGPUB; USPAT | ADJ | ON | 2008/08/14 15:20 |
| S54 | 301 | ((exchange or exchanging or remove or removing or replace or replacing) with ((clean or cleaning or maintenance) with chamber) with (part or shutter or plate or shield) with chamber) and (semiconductor or wafer) and (deposition or etch or etching) | US-PGPUB; USPAT | ADJ | ON | 2008/08/14 15:20 |
| S55 | 141 | ((exchange or exchanging or remove or removing or replace or replacing) with ((clean or cleaning or maintenance) with chamber) with (part or shutter or plate or shield) with chamber) and (semiconductor or wafer) and (deposition or etch or etching) | USPAT | ADJ | ON | 2008/08/14 15:21 |
| S56 | 53635 | ((exchange or exchanging or remove or removing or replace or replacing) with ((clean or cleaning) with chamber) with (part or shutter or plate or shield) with chamber) and (semiconductor or wafer) and (deposition or etch or etching) and "204".clas. or "118".clas. | US-PGPUB; USPAT | ADJ | ON | 2008/08/14 16:04 |

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|-----|-------|---|-----------------|-----|----|------------------|
| S57 | 105 | ((exchange or exchanging or remove or removing or replace or replacing) with ((clean or cleaning) with chamber) with (part or shutter or plate or shield) with chamber) and (semiconductor or wafer) and (deposition or etch or etching) and ("204".clas. or "118".clas.) | US-PGPUB; USPAT | ADJ | ON | 2008/08/14 16:04 |
| S58 | 1585 | ((clean or cleaning) near1 chamber) and ("204".clas. or "118".clas.) | US-PGPUB; USPAT | ADJ | ON | 2008/08/14 16:33 |
| S59 | 1142 | ((clean or cleaning) near1 chamber) and ("204".clas. or "118".clas.) and (valve or gate or isolation) | US-PGPUB; USPAT | ADJ | ON | 2008/08/14 16:33 |
| S60 | 28 | ((clean or cleaning) near1 chamber) and ("204".clas. or "118".clas.) and (valve or gate or isolation) and (maintenance near1 system) | US-PGPUB; USPAT | ADJ | ON | 2008/08/14 16:34 |
| S61 | 1229 | ((clean or cleaning or maintenance) near1 chamber) and ("204".clas. or "118".clas.) and (valve or gate or isolation) | US-PGPUB; USPAT | ADJ | ON | 2008/08/14 16:38 |
| S62 | 147 | ((maintenance) near1 chamber) and ("204".clas. or "118".clas.) and (valve or gate or isolation) | US-PGPUB; USPAT | ADJ | ON | 2008/08/14 16:39 |
| S63 | 11411 | (processing near1 system) same semiconductor | US-PGPUB; USPAT | ADJ | ON | 2009/02/03 16:26 |
| S64 | 583 | S63 and shutter | US-PGPUB; USPAT | ADJ | ON | 2009/02/03 16:26 |
| S65 | 79 | S64 and (transfer near1 arm) | US-PGPUB; USPAT | ADJ | ON | 2009/02/03 16:27 |
| S66 | 5 | S63 and (shutter with annular) | US-PGPUB; USPAT | ADJ | ON | 2009/02/03 16:31 |
| S67 | 43 | S63 and (shutter with (ring or ring-like)) | US-PGPUB; USPAT | ADJ | ON | 2009/02/03 16:33 |

2/4/2009 1:32:40 PM

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